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TITLE : HIGH DENSITY POLYETHYLENE RESIN-COATED STEEL PANEL

ABSTRACT : PURPOSE: To obtain a steel panel excellent in the close adhesiveness with a high density polyethylene resin by coating a surface treated steel panel with a film containing a thermosetting resin and successively coating the film with a medium density or linear low density acid modified polyethylene resin and a high density polyethylene resin.

CONSTITUTION: A film containing one or more kind of a resin selected from an epoxy resin, a polyester resin and an acrylic resin and 0.1-30% by wt. of the resin of one or more kind of a component selected from chromate, silicic acid or a salt thereof, alumina and phosphate is formed on a steel panel in a dry film amt. of 0.01-3-g/m². Next, a resin consisting of an acid modified low density polyethylene resin having unsaturated carboxylic acid or an anhydride thereof or a derivative thereof introduced into its hydrocarbon group in a modifying amt. of 0.1-20% and a medium density or linear low density polyester resin in a ratio of 1:0.11 is applied to the film in a thickness of 2-200μm and a high density polyethylene resin layer with a melt index of 0.01-0.7 and a thickness of 10-500μm is formed thereon.

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